

GameSec 2011

Conference on Decision and Game Theory for Security

November 14-15, 2011, College Park, Maryland, USA

www.gamesec-conf.org

GameSec 2011 Technical Program Overview		
Time	November 14 (Monday)	November 15 (Tuesday)
08:00 AM	Breakfast and Registration	
08:30 AM		Breakfast and Registration
09:00 AM	Welcoming Remarks	
09:30 AM	Plenary Keynote (Joe Halpern)	Plenary Keynote (Nicolas Christin)
10:00 AM		
10:30 AM	Coffee Break	Coffee Break
11:00 AM	Attacks, Adversaries and Game Theory	Security Insurance
11:30 AM		
12:00 PM	Lunch Break	
12:30 PM		Lunch Break
01:00 PM		
01:30 PM	Wireless Ad-hoc and Sensor Networks	Security and Trust in Social Networks
02:00 PM		
02:30 PM		
03:00 PM	Coffee Break	
03:30 PM	Network Games	Coffee Break
04:00 PM		Security Investments
04:30 PM		
05:00 PM		Closing Remarks

GameSec 2011 Social Program Overview
Welcoming Reception: <i>Sunday, November 13th, 18:00 – 20:30 p.m.</i>
Conference Banquet: <i>Monday, November 14th, 18:30 – 21:30 p.m.</i>
Lunch, Coffee and Drinks will be provided to all participants during the conference.

GameSec 2011 Program Details

Sunday, November 13th

18:00 – 20:30	Welcoming Reception and Registration, <i>Sheppard Gallery</i>
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Monday, November 14th

08:00 – 09:00	Breakfast and Registration, <i>Room 2100</i>
09:00 – 09:30	Welcoming Remarks <i>Pat O'Shea, Michael Hicks (University of Maryland)</i>

Plenary Keynote 1 <i>Chair: Michael Hicks (University of Maryland)</i>	
09:30 – 10:30	“Beyond Nash Equilibrium: Solution Concepts for the 21st Century” <i>Joe Halpern (Cornell University, NY, USA)</i>

Session 1: Attacks, Adversaries and Game Theory <i>Chair: Armand Makowski (University of Maryland)</i>	
11:00 – 11:30	“Indices of Power in Optimal IDS Default Configuration: Theory and Examples” <i>Quanyan Zhu (UIUC, IL, USA) and Tamer Basar (UIUC, IL, USA)</i>
11:30 – 12:00	“Exploiting Adversary's Risk Profiles in Imperfect Information Security Games” <i>Gabriel Stocco (Dartmouth College, NH, USA) and George Cybenko (Dartmouth College, NH, USA)</i>

Lunch 12:00 – 13:30 Lower Level Concourse Gallery

Session 2: Wireless Adhoc and Sensor Networks <i>Chair: Radha Poovendran (University of Washington)</i>	
13:30 – 14:00	“An Anti-Jamming Strategy for Channel Access in Cognitive Radio Networks” <i>Shabnam Sodagari (Virginia Tech, VA, USA) and Charles Clancy (Virginia Tech, VA, USA)</i>
14:00 – 14:30	“Node Capture Games: A Game Theoretic Approach to Modeling and Mitigating Node Capture Attacks” <i>Tamara Bonaci (University of Washington, Seattle, WA, USA) and Linda Bushnell (University of Washington, Seattle, WA, USA)</i>
14:30 – 15:00	“Multi-variate Quickest Detection of Significant Change Process” <i>Krzysztof Szajowski (Wroclaw University of Technology, Poland)</i>

Session 3: Network Games <i>Chair: Richard La (University of Maryland)</i>	
15:30 – 16:00	“Interplay Between Security Providers, Consumers, and Attackers: A Weighted Congestion Game Approach” <i>Patrick Maille (Telecom Bretagne, France),</i>

	<i>Peter Reichl</i> (Telecommunications Res. Center Vienna, Austria) and <i>Bruno Tuffin</i> (INRIA Rennes, France)
16:00 – 16:30	“Network Games With and Without Synchronicity” <i>Ahmad Termimi Ab Ghani</i> (Tohoku University, Japan) and <i>Kazuyuki Tanaka</i> (Tohoku University, Japan)
16:30 – 17:00	“An Asymptotic Solution of Drescher's Guessing Game” <i>Robbert Fokkink</i> (Delft University of Technology, Netherlands) and <i>Misha Stassen</i> (Delft University of Technology, Netherlands)

18:30 – 21:30	Conference Banquet and Plenary Keynote 2, Mount Clare Cafe “Cybersecurity -- How did we get here and where are we going?” Carl Landwehr (National Science Foundation, USA)
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Tuesday, November 15th

08:30 – 09:30	Registration and Breakfast, Room 2100
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Plenary Keynote 3 <i>Chair: Jonathan Katz</i> (University of Maryland)	
09:30 – 10:30	“Network Security Games: Combining Game Theory, Behavioral Economics, and Network Measurements” <i>Nicolas Christin</i> (Carnegie Mellon University, PA, USA)

Session 4: Security Insurance <i>Chair: Tamer Basar</i> (University of Illinois)	
11:00 – 11:30	“Security Games with Market Insurance” <i>Benjamin Johnson</i> (University of California, Berkeley, CA, USA), <i>Rainer Boehme</i> (Muenster University, Germany) and <i>Jens Grossklags</i> (Pennsylvania State University, PA, USA)
11:30 – 12:00	“Aegis: A Novel Cyber-Insurance Model” <i>Ranjan Pal</i> (University of Southern California, CA, USA), <i>Leana Golubchik</i> (University of Southern California, CA, USA) and <i>Konstantinos Psounis</i> (University of Southern California, CA, USA)

Lunch 12:00 – 13:30 Lower Level Concourse

Session 5: Security and Trust in Social Networks <i>Chair: Assane Gueye</i> (National Institute of Standard & Technology)	
13:30 – 14:00	“Maximizing Influence in Competitive Environments: A Game-Theoretic Approach” <i>Radha Poovendran</i> (Univ. of Washington, Seattle, WA, USA) and <i>Andrew Clark</i> (Univ. of Washington, Seattle, WA, USA)
14:00 – 14:30	“Collaborative Location Privacy with Rational Users” <i>Francisco Santos</i> (EPFL, Switzerland), <i>Mathias Humbert</i> (EPFL, Switzerland), <i>Reza Shokri</i> (EPFL, Switzerland) and <i>Jean-Pierre Hubaux</i> (EPFL, Switzerland)

14:30 – 15:00	<p>“Digital Trust Games: An Experimental Study”</p> <p>Tansu Alpcan (<i>Technical University of Berlin, Germany</i>), Albert Levi (<i>Sabanci University, Turkey</i>) and Erkay Savas (<i>Sabanci University, Turkey</i>)</p>
15:00 – 15:30	<p>“Colonel Blotto in the Phishing War”</p> <p>Pern Hui Chia (<i>Norwegian Univ. of Sci. and Techn., Norway</i>) and John Chuang (<i>University of California, Berkeley, CA</i>)</p>

Session 6: Security Investments

Chair: Martin Loeb (*University of Maryland*)

16:00 – 16:30	<p>“Investment in Privacy-Preserving Technologies under Uncertainty”</p> <p>Murat Kantarcioglu (<i>University of Texas at Dallas, TX, USA</i>), Alain Bensoussan (<i>University of Texas at Dallas, TX, USA</i>) and Celine Hoe (<i>University of Texas at Dallas, TX, USA</i>)</p>
16:30 – 17:00	<p>“Modeling Internet Security Investments: Tackling Topological Information Uncertainty”</p> <p>Ranjan Pal (<i>University of Southern California, CA, USA</i>) and Pan Hui (<i>Deutsche Telekom Labs Berlin, Berlin, Germany</i>)</p>

17:00 – 17:15	Closing Remarks
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